

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT -- REVISED

PERMITTEE

Milton Enterprises, Inc.
Attn: Mr. Lucky Nelson, President
300 King Street
Elk Grove Village, Illinois 60007

Application No.: 96050052

I.D. No.: 031440AJN

Applicant's Designation:

Date Received: September 22, 2003

Subject: Metal Finishing

Date Issued: March 30, 2004

Expiration Date: April 11, 2005

Location: 300 King Street, Elk Grove, Illinois

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of seven liquid spray booths and solvent cleanup operations; one powder coating booth; four bake ovens; and one controlled pyrolysis burn-off oven with afterburner, pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., 25 tons per year volatile organic material (VOM), 10 tons per year of any single hazardous air pollutant (HAP), and 25 tons per year of combined HAPs). As a result, the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
- b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
- c. This permit supersedes all operating permits issued for this location.
- 2a. Total combined emissions of VOM from the seven liquid spray booths and solvent cleanup operations shall not exceed 2.31 tons/month and 23.07 tons/year. These emissions shall be determined from the following equation on a monthly basis:

$$E = 3 (M_i \times V_i) / 2000;$$

Where:

E = VOM emissions (tons);

M_i = Usage of each VOM-containing material (coatings, thinners, cleaning solvents, etc., in gallons);

V_i = VOM content of each material (lb/gallon);

These limits are based on maximum material usage and 100% emission of the VOM content of these materials. Compliance with the annual limit shall be determined monthly from the last 12 months of data.

- b. This permit is issued based on negligible emissions of VOM and particulate matter (PM) from the powder-coating booth. For this purpose emissions shall not exceed nominal VOM emission rate of 0.1 lb/hour and 0.44 tons/year.

- c. Emission and operation of the burn-off oven shall not exceed the following:

<u>Equipment</u>	<u>Operation</u>		<u>Particulate Matter</u>	
	<u>(Lbs/Hour)</u>	<u>(Hours/Year)</u>	<u>(Lbs/Hour)</u>	<u>(Hours/Year)</u>
Burn-Off Oven	100	2,080	0.55	0.57

These limits are based on the allowable emission limit of 35 Ill. Adm. Code 212.321 at the maximum 100 lbs/hour operating rate and 2,080 hours/year operating time.

- d. This permit is issued based on negligible emissions of nitrogen oxides (NO_x) and carbon monoxide (CO) from the burn-off oven and four bake ovens. For this purpose emissions of each contaminant, from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.
- e. This permit is issued based on negligible emissions of PM from the seven liquid spray booths. For this purpose emissions from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.
- 3a. Names, usage, VOM content, and HAP content of all VOM-containing materials (gallons/month, gallons/year, lb/gallon, lb/gallon);
- b. VOM, single HAP, and combined HAPs emissions (tons/month, tons/year); and
- c. Burn-off oven hours of operation (hours/month, hours/year).
- 4. The Permittee shall maintain daily records of the VOM content of each liquid coating, as-applied, including the applicable VOM content limit (lb/gallon) for each such coating applied, to ensure compliance with 35 Ill. Adm. Code 218.204(j), Miscellaneous Metal Parts and Products Coating, as follows:
 - a. All air-dried, extreme performance, liquid coatings shall not exceed 3.5 lb/gal, pursuant to 35 Ill. Adm. Code Section 218.204(j) (2) (A).
 - b. All baked, extreme performance, liquid coatings shall not exceed 3.3 lb/gal, pursuant to 35 Ill. Adm. Code Section 218.204(j) (2) (B).

- c. All other air-dried, liquid coatings shall not exceed 3.3 lb/gal, pursuant to 35 Ill. Adm. Code Section 218.204 (j) (4) (A).
 - d. All other baked, liquid coatings shall not exceed 2.8 lb/gal, pursuant to 35 Ill. Adm. Code Section 218.204 (j) (4) (B).
 - e. The use and recording of touch-up and repair coatings shall comply with 35 Ill. Adm. Code Section 218.208(c) and (d), respectively.
- 5a. Material insulated with polyvinyl chloride or asbestos, or scrap containing the fuming metals tin, zinc, or lead shall not be charged to the burn-off oven with afterburner.
- b. The afterburner shall be heated to an operating temperature of 1400°F before charging and this temperature shall be maintained during operation.
 - c. The burn-off oven shall be equipped with an afterburner temperature indicator.
6. No solvent additives containing any VOM or HAPs shall be used in the two washers.
7. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.
8. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
9. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

10. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016

It should be noted that the two parts washers are exempt from state permit requirements, pursuant to 35 Ill. Adm. Code 201.146(oo).

It should be noted that this permit has been revised to add operation of one bake oven, three liquid spray booths (Randsburg paint booth, and adjacent touch-up booth, plus one previously omitted booth), and a replacement burn-off oven/afterburner, without any increase in permitted VOM emissions. Further, NO_x and CO limits were added for the natural gas-fired ovens and PM limits for the liquid spray booths.

If you have any questions on this, please call Jim Kallmeyer at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:JDK:psj

cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from this miscellaneous metal parts coating facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. By limiting the volatile organic material (VOM) content of coatings as applied, the VOM emissions from the source are limited. The resulting maximum emissions are well below the levels, e.g., 25 tons/year of VOM, 10 tons per year of single HAP, and 25 tons per year of combined HAPs at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

<u>Emission Units</u>	Emissions (Tons/Year)					
	VOM	PM	NO _x	CO	Single HAP	Combined HAPs
7 Liquid Booths & Cleanup	23.07	3.08			<10	<25
1 Powder Coating Booth	0.44	0.44				
1 Burn-Off Oven		0.57	0.44	0.44		
4 Bake Ovens			1.76	1.76		
Totals	23.51	4.09	2.20	2.20	<10	<25

JDK:psj